Army Surgeons Face Stupendous Problems

New Arms and New Bullets of the Great European War Present Difficulties Not Met in Other Conflicts, Dr. J. J. Walsh Explains.

The eyes of the medical and surgical world are fixed on the awful problems involved in properly caring for the immense number of wounded that will shortly have to be removed from the hattlefields of Europe. We have perfected the means of killing and wounding men until scarcely more could possibly be expected. Machine guns of all kinds can mow soldlers down by the hundreds and thousands but each of these when not thousands, but each of these when not killed has to be cared for individually. and we cannot cure them by machinery, nor in large numbers, but each individ-ual case will require expert care and the special consideration of trained minds and

new arms and new bullets have added to the destructiveness of war, but have multiplied the surgeons' problems and have made military surgery a special study for which, fortunately for humanity, there is not much experience provided, although unfortunately for those who have to be treated right now, the surgeons will have to do their best under pressure from time and the number of their patients and conditions that are little suited for scientific surgery.

Relgian Surgeon's Researches,

Prof. Octave Laurent, who spent eleven armies during the recent war in the Bal kans, has just published the story of his surgical experiences, and from this some idea of the grewsome work before the military surgeons of Europe can be ob-tained, although probably even this fails to give any adequate notion of the surgical experiences that will be forced upon the army surgeons. Prof. Laurent de-clares that ordinary civil surgery fur-nishes no real training for modern military surgery and that the surgeon must train himself and do the best

wounds inflicted by modern bullets The wounds inflicted by modern bullets are quite different from those that have been so carefully studied and so much written about in the past, and only his knowledge of the general principles of surgery and his own common sense and power to meet emergencies of all kinds will be helpful to the surgeon in the mountain conditions that present them. unusual conditions that present them-

As Prof. Laurent himself is a wellknown professor of surgery, and the au-thor of a textbook on the subject which has gone through three editions, and which has been translated into several modern languages, his opinions on this subject are well worthy of consideration. His experiences have been presented to French medical societies, and his observations have been the subject of serious discussion that has always recognized the value of his work. He is the surgeon to the hospital of St. John at Brussels, and his Balkan experience will now be of the greatest value for his countrymen in the war which has been so suddenly thrust on them, although, when his book on the campaign in Bulgaria was issued. few weeks ago, there seemed to be no ign at all that Belgian surgeons would o soon have to know everything available with regard to the wounds of mod-

Artillery Wounds Fatal.

There is no doubt that there will be a number of wounded to care for. The experience in the Balkans was that there was about four wounded for every solder killed. The wounds are usually diers wounded by the infantry survive.

Nearly three out of four of those wounded by the artillery have fatal wounds an almost absolute emptying of the skuli

By J. J. WALSH, M. D., Ph.D. se. D ed twelve would be killed by shrapnel. If the eyes of the medical and surgical world are fixed on the awful problems involved in properly caring for the immense number of wounded that will to the old proverb, it still takes, in spite shortly have to be removed from the batleast so far as the experience in the Balkans went—a man's weight in lead to kill him. Many millions of balls were fired for the thousands wounded and kill-

> Modern high velocity projectiles make very different wounds from the old mus-ket balls and even very different surket bails and even very different surgical lesions from those that were seen
> during the Franco-Prussian war or even
> the Russian-Turkish war in 1878. The
> modern bullet, with very high initial velocity, produces certain serious consequences never seen before. Its power for
> harm is simply enormous. The average
> ball from one of the new modern rifles
> will at 600 metres distance, that is nearly
> two-fifths of a mile, pass through three
> men. It will penetrate a single man at a men. It will penetrate a single man at a distance of 1.500 metres, that is nearly a mile. At more than a mile it will pass through the skull. making clean wounds of entrance and exit in both bony plates. It can produce a serious, even a fatal wound of the sbdominal region at a diswound of the spoomins: resconsiderably tance of 3,500 meters, that is considerably owing more than two miles. Fortunately, owing to the circumstances of modern is usually at these rather long distan wounds are produced. When the combatants are at shorter range the effects are often awful to contemplate. Injuries of Great Extent.

The awful penetrating power of the modern bullet will be very well realized from some of the incidents described by Prof. Laurent in his account of the sur-gery of the Bulgarian campaigns. In

there was about four wounded for every the neighborhood. The wounds are selsolder killed. The wounds are usually dom infected at the moment they are inflicted by the ordinary infantry arm, made, but infection readily occurs after-

inflicted.

More than one-half of the fatal injuries in the Balkan campaign came from
the artillery. Out of 100 killed and woundtered entirely outside the cranium.



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while most of the dead are killed by the artillery. About three out of four solders wounded by the infantry survive.

Nearly three out of four of those wound- away entirely and there was sometimes should have to compete with large, wellwas to the luncheon crowd that I should have to cater to; in that busy district there is no time for afternoon tea. "One of the least of my difficulties

"One of the least of my difficulties was my want of capital, but as I had determined to start in on a very small scale that did not boother me. For many months, I searched for a proper place which would come within the margin of what I believed I could pay, but, of course, rents down here are composed."

"And I have proved to the doubters that I had the right idea."

"At last, I found two rooms and a kitchen which the owner offered me for \$15 a week. The price was the only attractive thing about the place. Once before, it had been opened as a restaurant, but it had been vacant for two vears, and its appearance was no drawing card. One room was papered with brilliant red, the other with brilliant green. The red room had a bright green carpet, and the graph room an equally brilliant red one. Each fairly shrieked at the other.

"However, it was the best I could do. I toned down the walls somewhat with pictures brought from my own apartment and covered a couple of large tables with snowy white linen.

"You can make any place attractive if you have the money, but I had none: "You can make any place attractive if you have the money, but I had none: the found in the right idea."

AN OPPORTUNITY FOR INVESTORS

Prises running into the millions are offered for certain commercially valuable inventions; but as yet no one has annitary ventilated hat, made on scientific principles, can easily make a fortune. And it is a wonder that with all the inventive genius of Americans, a suitable device of this kind has not yet been made.

What a bad the right idea."

AN OPPORTUNITY FOR INVESTORS

In Europe It Ranks with Law or Medicine, and Followers

Are Specialists.

U. S. AHEAD OTHERWISE

American Laws for Safety and Sanibation in Factories Better and More Easily Enforced.

What a bad the right idea."

AN OPPORTUNITY FOR INVESTORS

In Europe It Ranks with Law or Medicine, and Followers

Are Specialists.

U. S. AHEAD OTHERWISE a suitable with a boon such a hat would be:

Baldness is dreaded, and while many nostrums and so-called cures for baldness have been widely exploited and widely advertised, it is a fact well recognized by physicians and dermantologists that baldness is absolutely incurable. It is true that it can be provented, and one of the surest method of the surest method of the surest method.

However, it was the best I could do. I toned down the walls somewhat with inventive genius o

as a dose; teacupe and saucers and plates from the 5-and-19-cent store, and added silver and cutlery from my own home. I rented a gas stove by the month, and, with four saucepans, I opened my place or business.
"When all was ready. I wrote peras it is, prevents the hair-from receiv-

surrounding streets, prepared a good, appetizing luncheon, the menu of which

appetizing luncheon, the menu of which I had inclosed with my letters, and opened my doors for business.

"The first day my place was filled, and from then on the only difficulty I had yet, with the hat of today, we are consupply that busy crowd. There were only about two and a half busy hours in the day, but I can assure you they were busy in the fullest sense of the word. My expenses were high, even with my small rent, and all bills had to be more heavenly. Let man be said to be more heavenly, being a shining be more heavenly, being a shining be more heavenly.

were busy in the fullest sense of the word. My expenses were high, even with my small rent, and all bills had to be paid weekly. At first I bought only enough of everything to supply immediate demands. This is a very expensive lystem, but it was the only thing I could do. As my trade increased I kept adding to my table equipment—china, cuttlery, and linen.

"When the business was running smoothly, and my rooms were crowded daily, the owner of the building died and his successor demanded a rent of \$100 a month, as he saw that the plage was a good investment and decided to run it for himself. This put me out on the street, and as I had previously canvassed the district so thoroughly I knew what a hard time I would have to find another suiltable place. For four months I search—supply the state of the winter with man, he went hatless. While a baid head may be said to the winter in man, he went hatless.

While a baid head may be said to the winter is no parting, few of us would prefer it to a luxuriant growth of hair.

So, now, here is a straight tip to our inventive geniuses of America—get busy in trying to discover how to construct a hat that will afford a oppious supply of fresh air to the high place where there is no parting, few of us would prefer it. to a luxuriant growth of hair.

So, now, here is a straight tip to our inventive geniuses of America—get busy in trying to discover how to construct a hat that will afford a oppious supply of fresh air to the himself. This put me out on the street, and as I had previously canvassed the district so thoroughly I knew what a hard time I would have to find another successor demanded a rent of \$100 a month, as he saw that the plage was a good investment and decided to run it for himself. This put me out on the street is no parting, few of us would prefer it. to a luxuriant growth of hair.

So, now, here is a straight tip to our inventive geniuses of America—get busy in trying to discover how to construct a hat that will afford a oppious supply of fresh air to the hair suitable place. For four months I search-ed diligently. I kept in touch with my former stenographer patrons, and they kept begging me to go back into business.

and provided a suitable rest room for-

The higher the voicety of the billet the greater the injury produced. From not of the most successful in New York Part on Control 1,000 feet to a little standard of the most successful in New York Part of the most successful the standard of the mostern built are noted. The least projectile covered with the steel casing projectile covered with the steel casing projectile covered with the steel casing the standard at most on have lumbhord with the steel casing the standard at most on have lumbhord with the steel casing the standard at most on have lumbhord at the story of her experience should be which teams of tissues to pieces and a capital state story of her experience should be which teams of tissues to pieces and a commitmate bones. The lead itself actually seems almost to be metted at a most one of the continually wary that the steel casing a standard point of the standard commitmates bones. The lead itself actually seems almost to be metted at the standard point of the standard commitmates bones. The lead itself actually seems almost to be metted at the standard point of the standard commitmates bones. The lead itself actually seems almost to be metted at the standard point of the standard point of

but good plain, neurishing rood, no mar-ter where you locate yourself, the busi-ness will come to you. My friends threw cold water on my enthusiasm when I rented this place, because it is up one flight of stairs and there is no elevator,

recognized by physicians and derma-tologists that baldness is absolutely incurable. It is true that it can be prevented, and one of the surest meth-ods for preserving the hair is to allow it to have a constant supply of fresh

ing any air, and is one of the most prolific causes of baldness, as is well known by those who make a study of the scalp and the hair a specialty.

Air is life to the hair as well as to the body. Deprived of air for but a

GERMAN AIRMEN IN FORCE.

Paris, Aug. 15.-Many German serokept begging me to go back into business. It is a mistake to believe that the average stenographer's luncheon consists of a sundae and a marshmallow; she is a very sensible girl, and orders a good sensible luncheon, and it was my hearry substantial luncheons that appealed to her.

AMERICA'S GREATEST RESORT NOW MECCA OF THOUSANDS

Middle of August Finds Great Throng of Pleasure Seekers Enjoying Every Outdoor Diversion

By CHARLES K. ABBOT.

Atlantic City, N. J., Aug. 15.—The past week has found the entire length of the bathing beach a mass of humanity rep-resenting all ages and conditions of peo-ple, a great majority of them being clad in bathing attire and enjoying the warm, refreshing surf, while others repose calmly in those comfortable and restful

the resort.

Senator and Mrs. F. S. White and Miss

M. J. Ready, Mrs. Irene J. Reilly,

In Europe It Ranks with Law and the cantonal authorities.

involve much more than a mere system of detecting violations of law is becoming more and more apparent in efforts for the protection of the working classes. The ards for safety and health of workers, higher specialization of the functions of inspecto: and the creation in a number large powers are indications of the prog-

receiving in this country, the experience of foreign countries in the administration of labor laws and factory inspection is of peculiar interest, and a report on this subject, covering Great Britain. Germany. France, Austria, Switzerland, and Bel-

structive. In the countries named labor laws date back to the beginning of the nineteenth century, but the first measures for their enforcement were not passed until 1833 when factory inspection was established in England, while similar action was not taken elsewhere until 1874, when France created a labor inspection department followed by Switzerland in 1877, Germany in 1878, Austria in 1883, and Belgium in

Personnel High-Class.

While experience has shown that labor laws without provisions for enforcement are practically futile as protective measures, emphasis must also be placed upon the importance of efficiency in the administrative machinery, its scope and functional thems, its methods of work, the character thems, its methods of work, the character of the placeton of the Imperial Order of the Daughters of the Empire of the Daughters of the Daughters of the Daughters of the Empire of the Daughters of the Daught

Hugh Congrove, and C. E. Lanahan of Washington. Mr. and Mrs. L. B. Russell, P. A. Witt-berger, of the Capital, are being enter-tained at the Hotel New Clarion.

Other prominent Washingtonians so-ourneying in the resort include the fol-owing: Mary Cummins, L. A. Cummins, refreshing surf, while others repose cainly in those comfortable and restful rows of chairs that stretch along the wide strand.

Washington visitors are not to be outdone, as they are much in evidence in almost every hotel and along the Board walk, being active in their participation of every amusement and attraction.

The theater-loving contingent have been well supplied during the week with splendid entertainment and the performances for several weeks to come will be of a high order.

Raymond Hitchcock has been appearing at the Apolio Theater during the week in "The Beauty Shop," while Donald Brian, Julia Sanderson, and Joseph Cawthorne will be the stars in "The Girl Cawthorne will week in "The Beauty Shop," while Donald Brian, Julia Sanderson, and Joseph Cawthorne will be the stars in "The Girl from Utah." which will be seen at the Apollo Theater all of next week.

"Under Cover," with William Courtenay and Miss Lilly Cahill have attracted large audiences to the New Nixon Theater this week, while an entirely new comedy will be presented next week, entitld "The High Cost of Lovins," which will appear here for the first time on any stage, the company being headed by Lew Fields.

Interest in the European war may result in the active operation of the great wireless station, at Tuckerton, N. J. which is about twenty-five miles north of Atlantic City.

Congressman Richard Bartholdt, of Missouri, has been a recent visitor in the resort.

A. Curtin, Str. Lossen Todns. Louise Parker, Mrs. Nellie Sheep, Mrs. H. S. Virgin, Mrs. Nellie Sheep, Mrs. H. S. Virgin, Mrs. L. A. Tracy, Miss, H. S. Virgin, Mrs. M. L. A. Tracy, Miss, H. S. Virgin, Mrs. M. S. Averren, Mrs. M. J. Gorman, Miss Marie L. Seitz, Samuel J. Filckinger, Mr. and Mrs. D. S. Hursh, Mrs. Dally, Mrs. Margaret Connelly, Miss M. E. Connelly, Mrs. M. E. Hurney, H. S. Hill, D. P. Wolhaupter, Marie L. Sullivan, Marie E. Byrne, Miss Emille Buhler, Miss Katharine Kostmayer, Mr. and Mrs. J. G. Kostmayer, Miss Minnie C. Hunt, Mrs. F. H. Hoover, Miss Virginia Hoover, Miss Lou Biszell, Miss Fay Biszell, W. F. Adams, Mrs. M. S. Avery, Mr. and Mrs. B. W. F. Baird, F. B. Barnes, J. C. Baites, Mrs. M. Gibson, Mr. and Mrs. Bayard K. Gibson, Mr. and Mrs. D. S. William R. M. Mrs. Bayard K. Gibson, Mr.

of States of industrial commissions with

ress made.

In view of the attention the subject is gium, which has just been published as Bulletin, No. 142, of the United States Bureau of Labor Statistics of the Depart-ment of Labor is both timely and in-

thens, its methods of work, the character of its personnel, and the provision of definite standards as to safety and sanitation. In only one of these phases of administrative work was marked superiority found in the countries visited, as comfound in the countries visited. substantial luncheons that appealed to her.

"A fire nearly consumed this building and I secured an option on this floor. The parent by the fact that every French are place had been badly damaged, and the landlord refused to do a thing to it. I had to pay two months rent in advance and go to all the expense of fitting it up. This money was advanced to me by some friends.

"As you see, I chose quiet, cheerful colors and attractive fixtures. Every meth of space had to be devoted to dining accomplaints: even the place where the gas meter stood had to be utilized as a store and provided a suitable rest room for the contraction of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and character of the inspectorial force. In Europe the position of factory inspector can be secured only after long technical training and severe tests. The occupation is classed as a profession ranking with law, medicine, and provide is secured and pensions are given for long service and old age. Men who seek these positions are development in the training and character of the inspector can be secured only after long technical training and severe tests. The occupation is classed as a profession ranking with law, medicine, and p

tary provisions in workshops. In Germany the factory laws are administered by the industrial inspectors, inspectors of insurance associations, and police authorities, and in Austria by the industrial inspectors and the local industrial authortirely in the hands of the local police

Few Women Inspectors.

Medical factory inspection is still an undeveloped field, England and Belgium

England, where they occupy the unique position of being practically independent in their work and functions. France has eighteen women inspectors, Austria, 5; Beigium, 1: Prussia and Switzerland, none, and the German states but few Outside of England the work of women inspectors is limited to small shops where women and children are employed. There is great demand among the inboring classes for workingmen inspectors. This has met with considerable opposition from some of the governments as well as from regular inspectors. England has workingmen inspectors. their functions are limited, their salaries low, and their status entirely different from that of regular inspectors. Prus-

inspectors as yet, and there are only a few in Austria, Belgium, and some of the ew in Austria, beigium, and some of the German states. Little progress in scientific standardizaion of safety and sanitation has been made in Europe, and labor laws in man instances fail to give exact standards for the guidance of inspectors and for the use of manufacturers and employes. In spection to detect violations of law is will the method used by most inspectors, and most European inspection departments are far behind the more progressive de-partments in the United States in the matter of keeping records of inspections,

sia, France, and Switzerland have no such

C. P. R. GIVES SHIP.

Floating Hospital Gift to British Government by Company.

Montreal, Quebec, Aug. 15.-The placing of a hospital ship at the disposal of the British government during the present crisis has undoubtedly materialized. A message from Sir Thomas Shaugnessy president of the Canadian Pacific Hail-way at St. Andrews, today states that he is acting on behalf of the company in

After thirty-three years of continuous Ayways Bring Results.

MUSIC AND MUSICIANS

An interesting feature of the music this evening at the Church of the Covenant tent will be the assistance of Mr. Walter F. Smith, the well-known cornetist of the Marine Band, who will play a solo and

also the hymns. also the hymns.

The vocal soloist will be Mr. Leroy Gilder, tenor, who will sing "Love, Give Me Thy Heart," by Wilkes, and Gounod's "O Jesus, Thou Art Standing."

Mr. Blanchard will act as precentor. with Mrs. William Hamilton Bayly at the

Mrs. Emily Frech Barnes has continued teaching singing and elecution at her studio during the summer months, being among the few teachers who conduct summer classes. She is going to Eagles-

conducted at the Malvern was as follows: Overture, Oberon (Weber); Valse Orientale. "Passing of Salome" (Joyce); three dances from Henry VII (German), Morris dance, Shepherd's dance, Torch dance; menuet (Pederewski), Fantaisie-mosaique, "Thais" (Massenet), Meditation, "Ave Maria" (Gounod), and excerpts from "The



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PAUL C. ROSECRANS, Mgr.

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Capacity, 300. Booklet, J. P. GIBERSON, Prop. Medical factors undeveloped field, England and Beigium undeveloped field, England and Beigium being the only countries having separate medical divisions, and even there the number of physicians is small.

Women inspectors number twenty in provide both and maning water. Elevator to street level. White service.

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